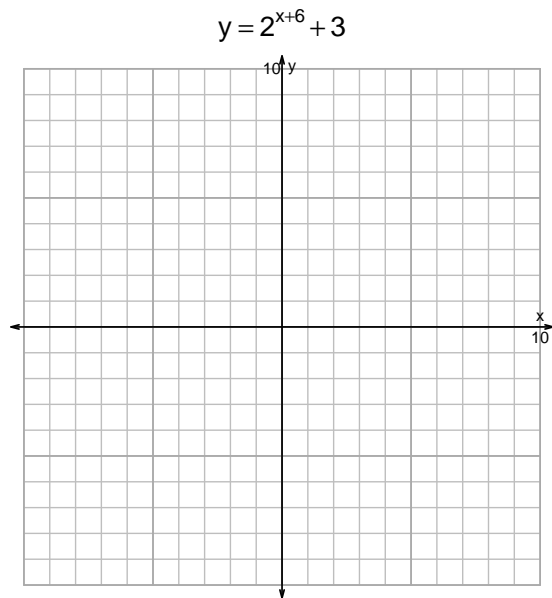
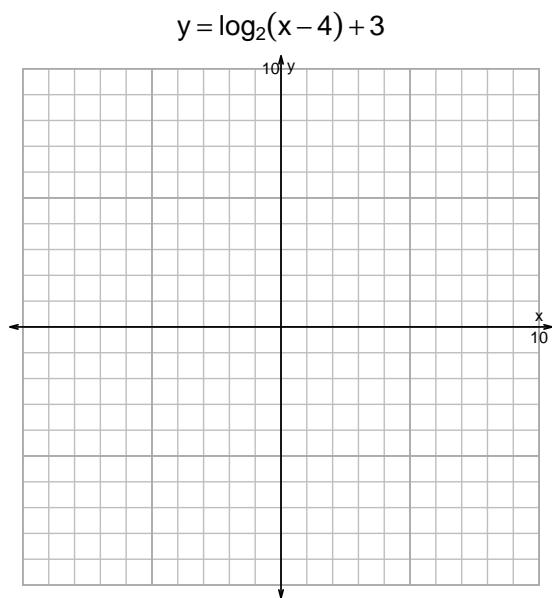


Name: _____

Date: _____

s18QUIZ: EXP LOG (QUIZ v244)

1. Graph $y = \log_2(x - 4) + 3$ and $y = 2^{x+6} + 3$ on the grids below. Also, draw any asymptotes with dotted lines.



2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$-19 = \left(\frac{-4}{7}\right) \cdot 2^{-3t/5}$$

3. An exponential function $f(x) = 345 \cdot e^{-3.68x}$ is graphed below on a semi-log plot.



- a. Using the plot above, evaluate $f(1.1)$.
- b. Express $f^{-1}(x)$, the inverse of f .
- c. Using the plot above, evaluate $f^{-1}(0.05)$.